

# GEORGIA DEPARTMENT OF TRANSPORTATION

# BRIDGE DESIGN PC PROGRAMS USERS GUIDE

OFFICE OF BRIDGE AND STRUCTURAL DESIGN

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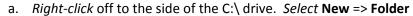
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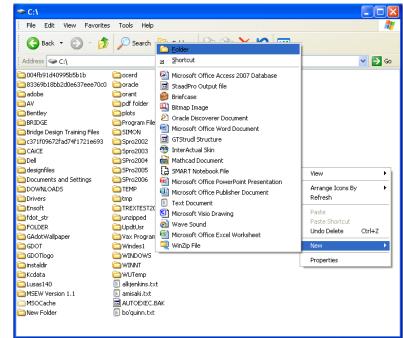
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#### DOWNLOADING/INSTALLING BRIDGE DESIGN PC PROGRAMS

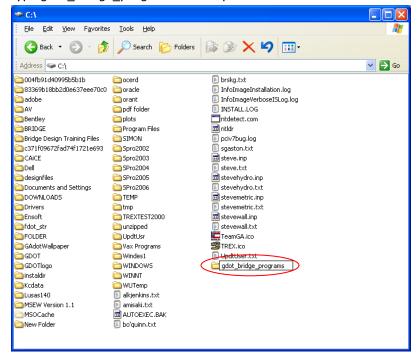
NOTE: By placing the gdot\_bridge\_programs in the C drive of the computer, it allows access to the programs by anyone who accesses the computer. When placed in the My Documents folder, only the person who placed the folder can access the programs.

Create folder under C:\ named gdot\_bridge\_programs.
 NOTE: If this folder already exists, remove any existing input files and delete it.





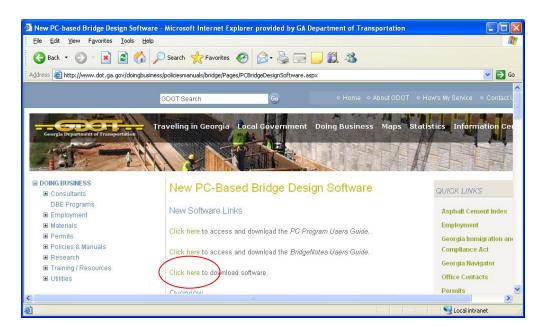
b. Type *qdot bridge programs*. Then press **Enter**.



2. Go to Website:

http://www.dot.ga.gov/doingbusiness/policiesmanuals/bridge/Pages/PCBridgeD
esignSoftware.aspx

3. Click on "Click here" to download software:



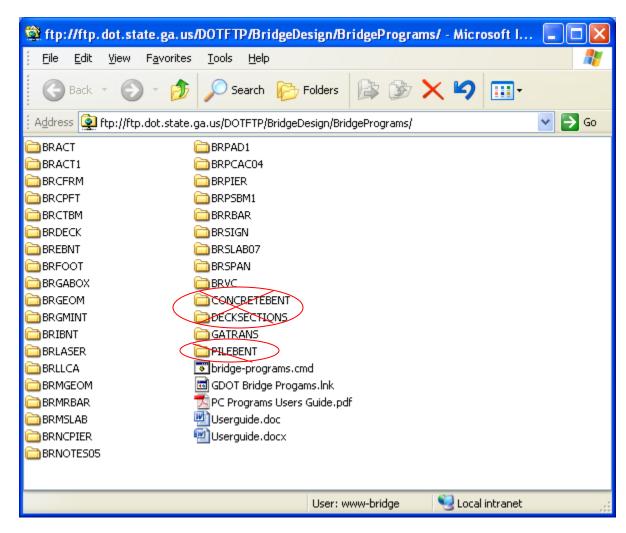
4. The following window will pop-up:



NOTE: If User name and Password for ftp log on is unknown, contact an Assistant State Bridge Engineer at 404-631-1985.

Enter User name and Password and Click Log On

5. Select all the folders and files in the ftp location except CONCRETEBENT, DECKSECTIONS and PILEBENT and copy to the <a href="C:\gdot bridge programs">C:\gdot bridge programs</a> folder.



# ADDING SHORTCUT ACCESS FOR BRIDGE DESIGN PC PROGRAMS

NOTE: This shortcut allows the user to:

- 1) Have a single point of access for all the Bridge Design PC Programs
- 2) To store input/output files in another location than where the PC programs are stored.
- 1. Move GDOT Bridge Programs.lnk to Desktop
  - a. Go to C:\gdot bridge programs
  - b. Right-click onto GDOT Bridge Programs (or GDOT Bridge Programs.lnk) and Select Cut.
  - c. Go to C:\Documents and Settings\All Users\Desktop (no hyperlink)
  - d. Right-click and Select Paste.

#### **ADDING SHORTCUT FOR GATRANS PC PROGRAM**

- 1. Go to <a href="C:\gdot\_bridge\_programs\GATRANS">C:\gdot\_bridge\_programs\GATRANS</a>
- 2. Select windeck.ini, gatrans.bat, gatrans.ma
- 3. *Right-click* on the selected files and *Select* **Copy**.
- 4. Go to C:\GDOT\BRIDGE\Graphics\translator. If this folder doesn't exist, create it first.
- 5. Right-click in the translator folder and Select Paste.
- 6. Go to C:\gdot\_bridge\_programs\GATRANS
- 7. Right-click onto gatrans.bat and Select Cut.
- 8. Go to C:\Documents and Settings\All Users\Desktop (no hyperlink)
- 9. Right-click and Select Paste.

## **CREATING AND EDITING INPUT FILES**

Use Notepad for creating and editing input files. Use the following settings in Notepad:

#### • Font Options

Select Format from the top Menu then Select Font.

Font: Arial Terminal or Courier

Font Style: Regular

Size: 8

#### Deactivate Word Wrap

Select Format from the top Menu

Click Word Wrap to activate or deactivate (if checked it is activated, no check is deactivated)

#### • Activate Status Bar

Select View from top Menu

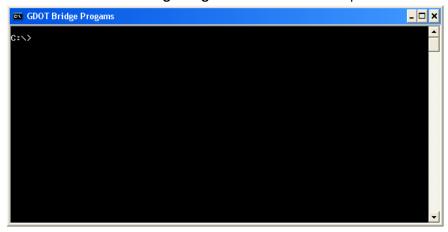
Click Status Bar to activate or deactivate (same as Word Wrap)

Input files for the PC Programs are a fixed format file. Therefore, the data will need to be entered into specific locations (line and column) in the input file. Input forms, located in the folder of the program, detail where data needs to be placed in the input file. Line and column information in Notepad can be found in the bottom right corner of the status bar (located at bottom of Notepad Window).

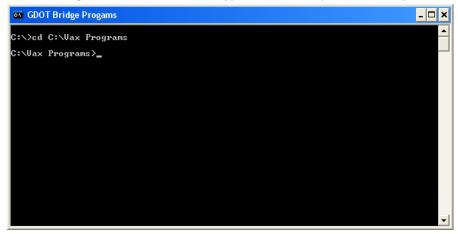
Use capital letters for any text in the input file and use the space bar to insert any blank spaces in the input file. The FORTRAN code used as the base of the PC Programs won't recognize lowercase letter nor will it recognize a space put in using the Tab key.

# **WORKING WITH SHORTCUT ACCESS FOR BRIDGE DESIGN PC PROGRAMS**

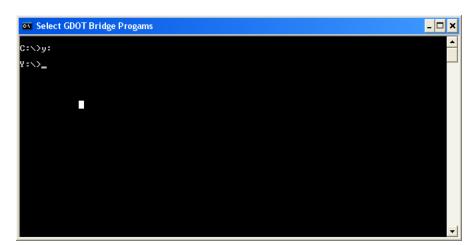
1. Double Click on GDOT Bridge Program shortcut on Desktop.



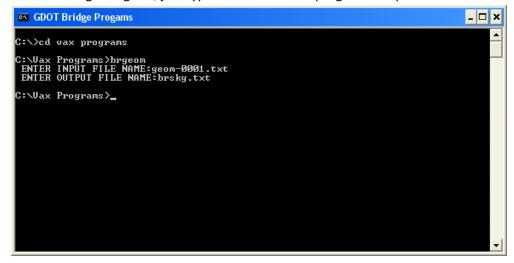
- 2. Going to the location of the input file.
  - a. To change to a different folder, Type cd then the path to the input file then press Enter.



b. To change to a different drive, type the name of drive with a colon and press **Enter**.



3. To run a Bridge Program, just type the name of the program and press Enter.



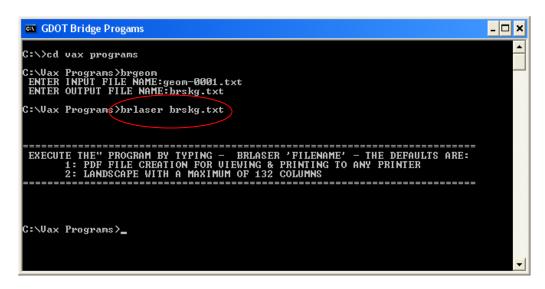
When prompted, enter the input file name and the desired output file name. The output file is placed in the same location as the input file.

NOTE: If the output file already exists, it will prompt you if you wish to replace the existing file. *Type* "y" and press **Enter** if you wish to replace the existing file, *Type* "n" and press **Enter** if you don't. If you don't replace the existing file, the new output file will be lost.

#### BRLASER FOR BRIDGE DESIGN PC PROGRAMS

This command will place the output file (after it is created) into a PDF file that is formatted with page breaks similar to the old BRLASER command on the Alpha Server/VAX. The PDF file (always named OT.PDF) opens automatically once the program is run.

Or typing BRLASER with the filename will create the pdf file in the default Landscape 132.



#### **GATRANS PC PROGRAM**

To use the GATRANS shortcut to convert a .sif file to a .dgn file just do the following steps:

- 1. Left-click (and hold) on the .sif file and drag it on top of the shortcut
- 2. Let go of the left button.

The program will automatically start to work and the resultant .dgn file will appear in the same location where the .sif file is located.

#### **PROGRAM NOTES:**

- The input file is case sensitive. If the extension is .SIF instead of .sif, the translator will not work.
- If the incorrect file type is used, the program will display an error message stating that GATRANS can only be run with no extension, and .sif extension or a .dgn extension. This is not correct.

  Only files with an .sif extension can be used.

#### **USEFUL COMMANDS FOR DOS**

C:\>cd temp changes directory from C:\ to C:\temp

C:\>cd.. moves the active directory up one folder

C:\>luke.txt opens file called luke.txt in Notepad (or default program for that type of file)

C:\>del luke.txt deletes file called luke.txt

C:\>dir Directory listing of files and subdirectories in current directory

C:\>X: Changes from C: Drive to X: Drive (Usually BRCommon for Bridge Office)

# **MISCELLANEOUS INFORMATION/FAQ**

- For information on individual design programs, consult the user manual for the specific program. (Most user manuals are located as PDF files in C:\gdot\_bridge\_programs in the folder with the same name as the program)
- Programs will work with most file extensions (or no file extension). However, it is recommended that a text file extension (.txt) be used in the windows environment for both input and output files
- Once installed, the shortcut can be modified to default to any folder when opened.
  - 1. Right-click on the GDOT Bridge Programs shortcut on the computer desktop.
  - 2. Select Properties.
  - 3. Enter path to desired folder in the "Start in" box.

    EXAMPLE: If you desire the shortcut to open in a folder called <a href="Vax Programs">Vax Programs</a> located in a folder called <a href="Design">Design</a> on the <a href="M:\Design\Vax Programs">M:\Design\Vax Programs</a>.

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Last Updated: December 9, 2008